

ABSTRACT OF THE DISCLOSURE

Disclosed is a horizontal transfer line in which first horizontal transfer pulses are applied to transfer electrodes via a commonly connected electrode line, second horizontal transfer pulses are applied to transfer electrodes via a commonly connected electrode line, and final horizontal transfer pulses are applied to a final transfer electrode via an electrode line independent of the above-mentioned electrode lines.

Since the independent electrode line is independent of the other electrode lines, amount of capacitance produced in equivalent terms is reduced. The final transfer pulses exhibit a steep characteristic, thereby improving transfer efficiency. The input/output characteristic of the horizontal transfer line is improved as a result.